

Weston Solutions, Inc.
Suite 500
750 East Bunker Court
Vernon Hills, IL 60061-1450
847-918-4000 • Fax 847-918-4055
www.westonsolutions.com



30 April 2004

Mr. Scott Hansen Work Assignment Manager U.S. Environmental Protection Agency 77 West Jackson Blvd. Chicago, IL 60604

U.S. EPA Contract No.: 68-W7-0026 Work Assignment No.: 148-ROBE-05BN Document Control No.: RFW148-2A-APPK

Re: Oversight Report for Lenz Oil Site, Lemont, Illinois

Dear Mr. Hansen:

Weston Solutions, Inc. (WESTON®) is pleased to submit the oversight report for the Lenz Oil Site, Lemont, Illinois. The oversight report is for the period from 23 January through 7 April 2004.

The attached oversight report provides WESTON's summary of the daily observations of the PRP's field activities, copies of field notes, and photo-documentation of field activities.

If you have questions, please call me at (847) 918-4051.

Very truly yours,

WESTON SOLUTIONS, INC.

Omprakash S. Patel

Site Manager

OSP:ld

PERIODIC OVERSIGHT REPORT 23 JANUARY 2004 THROUGH 7 APRIL 2004 LENZ OIL LEMONT, ILLINOIS

April 2004

Prepared for:

U.S. Environmental Protection Agency

Work Assignment No.:148-ROBE-05BN Document Control No.:RFW148-2A-APPK

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OVERSIGHT OF PRE-DESIGN FIELD INVESTIGATION LENZ OIL LEMONT, ILLINOIS

This report summarizes the field oversight for the pre-design field investigation by Conestoga-Rovers and Associates (CRA) at Lenz Oil, Lemont, Illinois. This report covers the period between 23 January through 7 April 2004. Weston Solutions, Inc. (WESTON®) provided oversight for the pre-design field investigations performed by CRA. One WESTON personnel was present on-site during the pre-design field investigations. Photo documentation and copies of the field log book are attached.

23 January 2004

The following personnel were present on-site:

Affiliation
CRA
WESTON

On 23 January 2004, water levels measurements were collected by the PRPs using an electrical-sounding oil/water interface probe. In addition, the thickness of LNAPL was measured using the oil/water interface probe where free product was observed. CRA also collected the total depth at wells where no free product was observed. Piezometers P-05, P-25 and P-25S could not be accessed due to frozen cap covers. Piezometer P-34 was open when CRA approached the location. The piezometer appeared to have been bumped or hit and the well cap was missing as the CRA personnel collected the water level measurement at P-34. The piezometer appeared to be usable without much obvious damage, and CRA placed the cap back on (which was found on the ground) after the depth-to-water (DTW) measurement was taken from the well. Other than the problems mentioned above, no deviations from the work plan were observed on 23 January 2004.

CRA also collected groundwater samples for a treatability study. Groundwater samples were analyzed for the following:

- Total organic carbon (TOC);
- Total suspended solids (TSS);

- Dissolved calcium, magnesium, and iron;
- Volatile organic compounds (VOCs);
- Polyaromatic hydrocarbons (PAHs); and
- Polycholrinated biphenyls (PCBs).

The samples were sent to Severn Trent Laboratories in North Canton, Ohio for analysis.

After collecting approximately 20 gallons of treatability study samples, CRA field manager Walt Pochron decided that a modification to the sampling method was necessary. The plan was to remove some of the LNAPL prior to groundwater sample collection so that the height of water column would be greater (because LNAPL that is sitting on top of the water column would be removed, thereby creating more space for the water to enter the well). WESTON suggested to CRA that they should get approval from the U.S. EPA since they were going to evacuate LNAPL. CRA ceased sampling activities for the day to discuss the modifications with the U.S. EPA.

3 February 2004

The following personnel were present on-site:

Name	Altiliation
Walter Pochron Jeff Kolodziejski Mike Mueller Kevin Wise	CRA CRA (Boart Longyear-Driller) (Boart Longyear- Helper)
Yoshie Hagiwara	WESTON

Per the amendment to the work plan (dated 13 January 2004), CRA installed two piezometers to monitor the zone of influence during the groundwater pump test. CRA performed appropriate air monitoring for the workers on-site during drilling and piezometer installation activities of PZ-42 and PZ-43. CRA also collected approximately 10 gallons of groundwater from VER-2 for treatability test purposes. During the collection, approximately 5 gallons of free product (LNAPL) was removed from VER-2 well.

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CRA did not have any plans for secondary containment for the LNAPL purged from VER-2. WESTON reported this to Mr. Scott Hansen, the U.S. EPA RPM. After the communication between the U.S.EPA and CRA project managers, CRA agreed to double-containerize the LNAPL. For temporary measures, CRA decided to store a 5-gallon bucket inside of a drum to provide double-

containerization. CRA ordered three over-pack drums for the long-term storage of LNAPL.

No other deviation to the work plan was observed.

16 February 2004

The following personnel were present on-site:

<u>Name</u>	Affiliation
Walter Pochron	CRA
Tim Ree	CRA
Tom Hobday	CRA
Yoshie Hagiwara	WESTON

On 16 February 2004, CRA collected water and LNAPL elevation measurements from the following wells and piezometers:

- PZ-36
- PZ-37
- PZ-39
- PZ-42
- PZ-43
- P-19
- P-20
- P-21, and
- VER-2

While on site, WESTON also learned that the LNAPL that was temporarily containerized in a 5-gallon bucket inside of a 55-gallon drum was transferred to a 55-gallon drum inside of an over-pack drum.

No deviation from the work plan was observed.

17 February 2004

The following personnel were present on-site:

<u>Name</u>	Allilation
Walter Pochron	CRA
Tim Ree	CRA
Tom Hobday	CRA
Yoshie Hagiwara	WESTON

On 17 February 2004, CRA started the step-test at the pumping rate of 1 gallon per minute (gpm). CRA lowered the pumping rate to approximately 0.5 gpm half an hour later due to problems with slow recharge at the VER-2 well. Due to the nature of the 2-inch Grundfos pump used for the test, the flow rate fluctuated between 0.45 and 0.55 gpm. The top of fluid (oil/water) stabilized approximately 3.5 hours into the test. The step-test was terminated approximately four hours from the start of the test.

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No deviation from the work plan was observed.

18 February 2004

The following personnel were present on-site:

<u>Name</u>	<u>Affiliation</u>
Walter Pochron	CRA
Tim Ree	CRA
Tom Hobday	CRA
Tim Leo	CRA
Christy Gerges	CRA
Yoshie Hagiwara	WESTON

On 18 February 2004, CRA performed a constant-rate pumping test at well VER-2. The test started at 08:27 at a pumping rate of 0.5 gpm. The pumping rate fluctuated between 0.5 and 0.55 gpm due to the variability cause by the Grundfos pump. The response observed in water-level-monitoring wells and piezometers was not uniform, perhaps indicating groundwater flow through a fractured medium.

No deviation from the work plan was observed.

19 February 2004

The following personnel were present on-site:

<u>Name</u>	Affiliation
Walter Pochron	CRA
Tim Ree	CRA
Tom Hobday	CRA
Yoshie Hagiwara	WESTON

On 19 February 2004, CRA terminated the 24-hour constant-rate pump test and continued to perform the VER pilot test at the VER-2 well. Prior to the start of the VER pilot test, CRA purged approximately 1.5 gallons of water from vapor monitoring points VMP-5, VMP-6, and VMP-7, and approximately 1.5 gallons of LNAPL from VMP-8. CRA calibrated the photo-ionization detector (PID), flame ionization detector (FID), and landfill gas analyzer prior to the start of the test. The VER pilot test started at 10:01 at maximum vacuum while the Grundfos pump stayed at 0.5 gpm in the background. A relatively quick response was observed at P-20 and VMP-8. At 10:37, the combined flow from VER-2 was approximately 3.5 gpm without much air flow. At 11:15, CRA increased the Grundfos pumping rate to 3 gpm to reduce the amount of groundwater purged into the vacuum unit. The vacuum was stable at 13:07, however CRA decided to continue the pilot testing until approximately 16:00 to ascertain that the aquifer drained and resulted in increased air flow. CRA also collected a one-hour discharge air sample in a Summa canister. The sample was analyzed using method TO-14. The VER pilot test was terminated at 16:10, approximately six hours after the start of the test. The final pressure readings showed the sign of influence at VMP-8 and P-20 but not at any other monitoring wells. CRA started the recovery test at 16:57. Water (LNAPL) level recovery data were collected from VER-2 and PZ-43.

No deviation from the work plan was observed.

20 February 2004

The following personnel were present on-site:

<u>Name</u>	<u>Affiliation</u>
Walter Pochron	CRA
Tim Leo	CRA
Yoshie Hagiwara	WESTON

CRA decontaminated the Grundfos pump and some of the data loggers used during the tests from the previous days and containerized oily decontamination water (sheen on top) into a 55-gallon drum. CRA planned to pump out the LNAPL from the Baker tank to a drum, however when the thickness of the LNAPL was measured (~0.01 ft), CRA determined that the volume of LNAPL is not sufficient to pump out. CRA decided to place oil absorbent booms inside the tank, and let all the LNAPL absorb onto the boom over the weekend.

No deviation from the work plan was observed.

02 March 2004

The following personnel were present on-site:

<u>Name</u>	<u>Affiliation</u>
Tim Leo	CRA
Jeff Kolodzieski	CRA
Yoshie Hagiwara	WESTON

On 02 March 2004, CRA pumped out the purge water stored in a Baker tank through a CarbonAir® carbon filtration unit (in a drum) into a water truck operated by Beaver Oil of Hodgkins, Illinois. The filtered water was transported and discarded by Beaver Oil. CRA sampled the tank water in three 40 mL vials preserved with hydrochloric acid and two 40 mL vials preserved with sulfuric acid. When asked what parameters these samples were going to be analyzed for, CRA field personnel were unable to answer. Later, when Walt Pochron, CRA field manager was contacted regarding the samples, he explained that the samples were collected to compare with the analytical results collected from VER-2 previously. This is to address the U.S. EPA's concern that the sample water from VER-2 well (collected on 23 January 2004) may not be representative of the discharge water generated during VER pilot testing. However, the number and types of samples collected on 02 March 2004 did not match the number and types of samples collected previously (on 23 January 2004) therefore, it is expected that the analytical data (from the tank) would be available for only a limited number of analytes. On 02 March 2004, CRA planned on decontaminating the tank and discarding the decontamination water into Beaver's tank (to be hauled off-site by Beaver). However, due to the malfunction of the pressure washer unit, CRA was unable to complete decontamination of the tank. It is WESTON's understanding that CRA will be back on site to complete the decontamination and discard the discharge water appropriately at a later date.

WESTON personnel also noted that the entrance of the site gate was secured by a plastic fencing material. Due to the hard surficial material, CRA was not able to re-stake the poles for the metal fence.

No deviation from the work plan was observed.

12 March 2004

The following personnel were present on-site:

<u>Affiliation</u>
CRA CRA WESTON

CRA attempted to decontaminate the Baker tank used to store purge water from pump test and VER pilot test. However, due to the cold temperatures, both the outlet valve on the tank and the oil/water inside the tank were frozen. CRA decided to postpone the decontamination activities for sometime later.

No field activities took place on 12 March 2004.

02 April 2004

The following personnel were present on-site:

<u>Name</u>	<u>Affiliation</u>
Jeff Kolodzieski	CRA
Tim Leo	CRA
Yoshie Hagiwara	WESTON

On 02 April 2004, CRA decontaminated the Baker tank which was used to store purge water from well VER-2 during pump testing and VER pilot testing activities. The interior of the tank was decontaminated using a pressure washer. Pressure wash by plain (potable) water followed the pressure-washing using Alconox-water solution. No problem was observed during the decontamination activities. However, during the decontamination activities, some LNAPL leaked into the tank's secondary containment rain water had collected. CRA decided not to containerize this contaminated water because they did not have enough drums to containerize all the contaminated water in the secondary containment. WESTON immediately informed the U.S. EPA about CRA's decision not to containerize the contaminated water within the secondary containment.

07 April 2004

The following personnel were present on-site:

<u>Name</u>	<u>Affiliation</u>
Jeff Kolodzieski	CRA
Tim Leo	CRA
Walter Pochron	CRA
Robert Majchrzak	WESTON

On 7 April 2004, CRA pumped out the water that was mixed with LNAPL in the secondary containment surrounding the Baker tank. The Baker tank is located on the south side of Jeans Road on private property. The water/oil mixture was pumped through a CarbonAir® carbon filtration unit (in a drum) into a water tanker truck operated by Beaver Oil of Hodgkins, Illinois. The filtered water was transported and discarded by Beaver Oil. The operator for Beaver Oil reported approximately 600 gallons of water was collected from the secondary containment area. Following the removal of the water/oil mixture, CRA decontaminated the secondary containment with alconox and water.

CRA also transferred water from the drums located on the north side of Jeans Road to the tanker

truck operated by Beaver Oil. This water was generated from well development and well sampling
procedures. Oil that collected on the top of the water was first skimmed-off and transferred to the
oil drums located on-site. The water was pumped to a 1,500-gallon poly tank. From the poly tank
the water was pumped through a CarbonAir® carbon filtration unit (in a drum) into the tanker truck.
According the operator for Beaver Oil, approximately 200 gallons of water was collected from the
north side of Jeans Road.

No deviation from the tasks outlined in a CRA letter dated 6 April 2004 to the U.S. EPA was observed on 7 April 2004.

PHOTO-DOCUMENTATION



Well piezometer configuration, with PZ-43 included, looking east (2/16/04; 14:05)



Piezometer PZ-42, looking west (2/16/04; 14:08)



Pump, tubing, and sensor inside VER-2 (2/17/04; 9:34)



Setting up the pump system (connection) at VER-2 (2/17/04; 10:02)



Grundfos pump controller, button control at VER-2 (2/17/04; 11:00)



Data loggers for pump testing at VER-2 (2/17/04; 12:41)



New flow meter (0-1gallon scale) installed (2/17/04; 13:23)



Prior to starting 24-hour pump test at VER-2 (2/18/04; 7:40)



VER test set-up (2/19/04; 8:28)



VER pilot testing (2/19/04; 10:05)



Monitoring outflow pressure during VER pilot testing (2/19/04; 10:07)



Taking vapor pressure measurement at VMP-5 (2/19/04; 10:13)



Collecting summa-can VOC air sample from the discharge outlet (2/19/04; 13:10)

COPIES OF FIELD NOTES

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0744	Waston (VIHTHAI WHOLD DOTO SCHOOL).	0845	0TO = 48.48 47'?
	. CRA walt -Dockton Rot - By reastation		DTW=6.83 fat VER-2
	1881 123 500 1007 NOTES		TD = 17.99
0000	I Want Person - meantowerky	0845	Start drilling at piezometer PEG
privibac	THAT CRAISEVY P. That I STEPHING	0380	Still drilling at 12-42
	22 pie Zaretere in woodloom!		Wat Puchan is monitoring breaking
	1" presometers. W. Pochron checked		zone CRA calibrated the PID
	V RPM Soft Housen on this		this making CPA Joff is pulling the
	(1" to 2") yestorday, and		free product into a bucket.
	S. Hansen did not have a problem		~ 41 of free product - Ampresent
	w/ this plan - yn		ab VER-2.
Persor	mel on site!	0858	Asked what cal gas with was used
	Mike Muller (Bockt Longyear)		to cal PID (MIN Rae > +0-704x11)
	Wat Polhion (CRA)		100 ppm Isobutylane,
	Jeff Kolodziejski (CRA)		odor (SIfAtto) from the core.
-010	Kevin Wise (Board)		The target depth for this piezo is
08/3	JOHN OF CRA ONSITEIN	297	~ 16.5 bgs.
0850	Health & Sole Ty brothing-	0907	Purged about 1.5 gals of the product
	- contaminants		Putting down new Jubing forwater
5280	JOHN CRA COSITE MZ		Sampling
			The cond & It yellouish boun,
2686	Or hers are getting set up at a borne location CRA Jose	(AZO	maist providing and - WX belook
		0,00	Cornains on the bechock out ~ 13 bys
	is getting ready to start purging of VER-20	2071	~ 3 gals of vilpurgedantson
	MO 2	<u> </u>	soil cuttings are getting lighten gray
	Shot some &	0930	
			Sampling water at VER-2.
	40' DVER-2	0936	1 A+ 1170/ Lac a+ 107-42
<u></u>			Startpulle up
	OVMP-5	0940	CPA ! C haluage Godlem pulling us later
	AV0.11 -240.4 A 10.7		round attrough their pulled out oil.
	Lemparty ours	0950	Asked V- Pochon of the dum containing
	P3420	,	Start pulled up CPA is halfing a Goodlem pulling up later rowth although their pulled act oil. Asked W- tochon if the dum containing free product from VER-2 will be stored

Y. Hagiwara 2/3/04 4. Harmona 3/04 inside of a secondary containment. At 13/bas at PZ-43, W. Rochron 11.26 informed that the plan for CLAPE walt thought that the all discussed Storage là to keep LARRING the 5-gallon buckets used to. in the e-mail was the pumptest. Drillers we getting some supplies setting PZ42 0216/bAs! 1005 purging, put files on top, and set them Sond 4 17 Fontontre 1-4 inside the drums to have 20 contain ment: CRA will order overpack 1040 Finishing up on PZ-42. Phoned drums to longer-term storage of On Possel to inform him that LNALM LNAPL. thore is no 29 containment At N1416GS Dt PZ-43. Thesoil [[30 Cuttings coming up is very armely An the drum (W/ LNAPL) ---- y mothly armel of <10% finder stuff Phone conference W. Scott 1045 CP binish grey), gosoline oder. Hancen. He will cond out an The PID reading jumped is bed in e-mal Rei 20 Containment 1135 to 18 ppm at vist 5/bys. Funcionerp th drums. -Informed W. Pochron (Percinstruction as the bugh cance up ~ 05/ -1080 Hitting hard pon ensomething at 1/4 51 has. 1140 of S. Hansen) that CRA will be astting an e-mail ke; 20 routain AT 18 bas The highest PID (147 ment to dums (LUAPL) -Hoving & Setting up at PZ-43 spike at this locution was 92ppm. 2201 Oh Patel phoned and mentioned that theaptive bucket - lid Idnim 147 lote: The screams useAforthere location are 10,measure will be used as explained 1100 Start drilling at PZ-43 location. by wattpackun earler. ~ 6 gala left to sample at VER-262 Pulling cut the angles from PZ-43 - Strug color coming out GW treatability study .-1203 3011 Bedrock at ~35/buc par PZ-43. Otidis well. O. ~ 6 bas at 12-43. The soil cuttings le 1110 THING TO SET the well, sand might Med brain (slightly yellowish) gravelly sand, slightly most 1206 not settle will try pourling some water to sex it it will settle Western Snowing and 200 Fat 0700.
The temp is suppose to drop
Through out the day. The drillers will take lunch break 1209 after pouring some more noter At 11130, slatt sun light, snow stapped into the well

	y flogiwon 2/3/04
	JOHOF CRA WILL stay and keep
1 - 44 - 41	
1215-11	CRA W. Pochron & drillers offsite
	Sampling Seff K is Still on Site Sampling CRA & Drillers box box box lunga
1240	CON CODULLORA LOCATER LUCA
12=10	CRA is on the last sample continue
	for theoretal litistical sample
1256	the theatability study sample yr Checking to water / oil at P2-42
	DTD = 12.25/70C
	DTW = 15.38/TOC
	CRA will not be developing
- 	PZ-42 today. They will develop PZ-42 WPZ-43 next week b) C
	BZ-42 WZ-43 next week blc
	these well have tree product.
	Prillers had to re-punish the
: ;	problem — or presented ble of owein
305	Pulling out awan some asible.
	Watt P. mentioned that the tip
	Watt P. mentioned that the tip
	of the probe (of /water interforce)
	was not covered w/ OIL. The probe
•	My home picked up something else of PZ-42. At PZ-43, the one is Lt grey wet mud (that had oil) CRA is monitoring
	At DZ ID IL O MO I I I TOMIN A DAT
	mud that had will applied mountains
Votei	Wat P. also mentioned that the plan
	is to order overpack drawns for themset
	week. They will show lop the male by
12.5	profing at a bayter (not gold) you
310	Tope Sampling at 12 03

, i	100
	Y. Hagluna 2/3/
13[1	PID reading >100 ppm or 50 arou
A	the augh. Stop work let the
	PID reading > 100 ppm or 50 arou the augn. Stop work & let the area an out before getting
	towark (continue w/ prezonet
	installation).
BIZ	CRA; contanenzna tubing in a
	plactic bag & parting things as not gate of oil waters was pung
	int gain of oil water of must pury
	Out from VER-Z.
1317	Regime work.
.: 83.70	screen 6,5-16.5/ bgs at \$2-4
1350	PID reading spikes to ~soppim
• :-	when the sand is being porter, but the reading is not a sustained a sand a sustained a
	the reading is not a sustained o
5	Simple College Table 1 44/ 6 a c
122:0	BontonHellymated) 1-4/bgs
[330	Done installing pz-43- Disposing of LNAPI into drumling
1337	bucker)
1343	CRAin pumping product out of
(*)	drum (Fromte orlier).
1350	Daillon, and another day
1404	Finished pureing out oil from a de interat gal bushot. Most of the
	into a tong bushot. Most of the
A Secretary	$I \subseteq AHI \subseteq IA \cap IDUALIS = ISHTUMER AND COLUMN$
	t not higheret to a drum.
Meather	Continerized pre brubing into a separ
HIO	Containerized pre atabing into a separ
1.	
<	Jett of eRA off site Bourt CR
19	is continuerizing thesoil cuttings.
	westen off site
15	Back at VHL.
	The state of the s

1 161. I MW micos! 1 2/6/04 Photolog () 2/6/04 2/16/64 1405 W PZ-43 well piezometer confi WESTON Leave VHI. 1200 13.07 WESTON ON SITO. Asked W. Pochron of CRA what they PZ-42 from west -1315 2/16/64 1408 2/11/04 1409 Oil containing drym (CNA did with the bucket that contained inside of ancrosp LNAPL. The buckets are stored à cortamerizei inside of a dum that also contains drum used PPE to tubing. They will be reusing the buck of later again. 416/04 14/2 Baken Tanks. The black of is set inside of a secondary contain The voin Charkup tank) An Personnel Oonsite Walt Pahron (CRA) 2/17/04 0934 Pump, tubing literas due Sensor in (weir revel 2) - tryin yoshie Hagiwana (WESTON) 1325 Start (ollective nature level measurements PZ-36 10:06 TO DTW) NO OI 2/17/04 1002. Setting upthe pumpsys (connection) at VER-2 PZ-37 5.79 (DTW) no 011 -12/A/04 1003. Set up at UER-2. Proi 0TO=10,50 Tol P-21 12.76TK(DTW) Wast. -Almost ready to sta 1333 CRA Crew ansite - engineers 2/17/64 1025 2/17/04 1100. Grundos controlles. TOM Hobdat CRA) P2-39 2/17/04 1154. Pump testing - step te 6.94TOC (DTW) No oil 2/17/04 1241 Outa loggers. Pz-42 12.52/70(DTW) DTO= 12.51/TOC 2/17/04 1241 17,194a (DTW), DTO= 13,32/ TOC DTW= 13,7770L DTO= 13,4770. (0+1 gal) in line -2/17/04 1429 Setting up data logger DTW = 16.86TOC DTC = 12.98 TCC VIER-2 DTW= 13,04TULDTO=8,43/TOL for tomorrow. Done taking DTW & DTO measurements 2/18/04 0740 VER-2. Before the 1359 The water Tlend I oil level meas one similar to yesterday readings. Per Watt P. of CRA, the new piezometers Pz-42 hPz-43, were Start of 24-In pump test -2/18/04 074 PZ-43. Set up for 1405 24-In pump test. 2/18/04 1019 Lighting secup for to tonight's portion of pump fost łί developed by surging for t-10 mins 2/18/2 2/19/04 0828 VER Test set up. The 24and balling took of water from 17 Pump fest is still foint on but the VER the well. No man tree product

166		1 .	167	
	".Hagiwana 2/16/04		Pump test 4. Hagirana 21	Ale
Fan	The bator tank-green in a	0755	weston (4. Haginara) on site. CRA	
	SEVP 48481 -tunt		Walt Rachion. Tom Hobdark Tim	1
145	VER fest crew one on site &	,		4
V .	preparing for to morrows	Weath	n: Clear, Curry High excepted	a _
1420	Checking the excepted hard on the		1010E 1800E At 07-20	~
·	Carporal ale unit.	0810	CRA is getting ready to start u	SH
weather	I Sunny w/ some cloud,	,	They will take another set of DTW	
1430	Done at the site CRA is trouble		before starting	
	shooting the problemul electrical		DTW (7-TOC) DTO	Æ
	connection power. They will start	2180	P2-37 8 M 82' -	
	at 0800 to morrow morning the		Pz-36 9.15' -	
1435	Phoned Om Patel and mentioned to		P-2 12.88 10.52	
·	him that		PZ-42 12.54 12.54 PZ-43 13.79 13.47	<u></u>
				<u>'</u>
			VER-2 16.91 1301	
	- I h Ni		TD = 17.94 TOC (VER-2)	_
	- HA MUS		P-19 17.22 13.35	_
·			P-19 17.22 13.35 P-20 13.69 8.48	_
			1P7-39= 6.46 -	_
	100	0848	There is only about 1 of water in	_
<u> </u> ——А	- In A A		The es only about 1' of warring	
<i></i>		0.5	VIR-Zwell.	$\stackrel{\checkmark}{=}$
		<u>≪</u> የ٥	Gerthy- Mconnections (pump, Tubing etc.))
			really for pump test. The pump is set a	<u>工</u>
		60/7	Still parting all the connections on.	_
		9957	Still putting all the connections on.	_
		1023	Almost ready to start the test-	_
	· · · · · · · · · · · · · · · · · · ·	110	Curch break L	-
			The pump controller is a digital Redi-	<u>-</u>
/			Controller. CPA will start the test at lace/min	Ā
			SPA will start the test at Igal/min	-
			pre-test readings at measurement paint, -	. L
				Ī
				4

Pumpted Step Test 4. HAHMA 2/17/04 LNAPL 15,11/TOC Drw stablized at 1833 atten 1605 VER-Z Pro-Tesy Minutes from start, flowerte No. Water 19.06/TOC 15-18 TD = 20, 10 TOC Done. 19.10 = DTW 134 Start Dumplas 18.33=DTO FO test The aims appears to have stopped test. Draining the line so 1136 Done W KD water does not theore over night in Resume pumping 1137 Having a broblem w/ bump control. line. W. Pockhon is almost done 1142 setting up data lagger for far Remaine at ~ | gal/min 1145 Resime fect augm. Packing up 16 43 Flowrote ~ | And/min DONE at the site will stort at 16,00 1208 flow rate ~ a lit gallmin. to morrow. cretting quest a bit of dandown ~ O. J. off the pump inlet (DTW) 1239 Stop the pump. Changing flow meter 1302 (in-line) tot lower flowmeter -10 gale to 0-Changed the farmater 1320 1324 Start bumpling 1325 133 roy and Imin. CRA will start work ~0700 tomorrow noming. N40°F Sunny, Clean Sty, V. fittle wind. Stabilized 02 17.34 02 0.4804 minds. Weather 1415 At 56 minutes into the fost, then encreased the Dimo vote to atgalapmin DTO = 12,32 (the DTW was comby backing) Q= 17.72 DTW Dippodro,4 437 m~ 13 minutes. DIO = 18,20 Abjusting Flow roke flow rose fluctuates at one serting. 1435 Dra=18,29 Still dropping flow then as

Pump test-24-m [] [] [] [] [] [] [] 4. Haliman 2/8/64 Tom H & Tim Leo Of Site. Done collecting 7 hr elopsed time 0940 1540 Christy, Tim R. & Walt one still on site.

CRA is collecting DTO / DTW

measurements ~ 1:45 miles elapsed reading. -Walt Pochon went offsite (1520 the 1013 15ofen To pick up bottomes etc.

Done for the day (WESTON) 1545 time Setting up lighting system-by tonight.

Taking another set in measurements

(15 mm internal) flow rate ~0.55 galah.

We Rochron off site.

Taking last of 15 min internal The pump test is still continuing 1017 1059 1121 measuremente out 3 Ara elapstil time flow rote = 0.5 GPM i Cloudy, chilly ~ 32°F wrothing west. Desent appear to norm up to the 40s on forecasted. 1903 Taking measurements. The flow rote christy of CRA off site. 1330 Taking 330 min classed time reading 1358 Flourise= 0.57 GPM. Houng & hard time keeping the flow rate , 1423 Collecting DTU/DTO impagarements. some of the water fevels have come up although the flow rate does not appear to have melted for to have changed suspecting the intil territor from snow met may be the cause of increased with evel -(The snow has been metting lines).
1200 today and portof yesterdy).
W. Pochon on site. 1520 Taking 74r measurements DTO=17,27 1527

i ; c	174	Pump test/ VER test		175
		4 HAMMAR - 2/19/04		Photolog (2)
	0740	Hagywana on site. CRA is filling the	18	2/19/04 8844 P-20 with cap on
<u> </u>	1 1	tank for VER testing the Dung Test		(th VER test)
		in almost done	19	2/19/04 1005 VER testing.
	0755	Taking DTW/DTO measurements	20	2/19/04 1007 Hunitaring outflan
		at VMP wells the	2/	ath during VER-Zontesting- 2/19/04 10/3. Taking VP measurement
		water is in the VMP wells In		911104 1013. Jaking VP measurement
	Person			THE STATE OF THE OF THE OF THE
<u> </u>		Tom Hobday (CRA)	22	graph of Cara and with a day in the
7	Tub alles	i Chardy partly sunny High expected		2/19/04 1044 Quiet ap yn Quiet bit of free product is drawn out VER-2.
	Weather	i Cloudy partly sunny High expected	23	2/9/04 1/01. Two flow moter attac
	0757	Filling out two empty, chean		to a matos outlet.
	, <u>, , , , , , , , , , , , , , , , , , </u>	d'nime (unused) Wideconnation.	24	2/19/04 1310 Collecting Summa-and
		They will use the dum water for		sample from the discharge area (an
		decontaminating VER system after the		out let
		test. In	25	Sane as above, from throther away
	5080	UMP-8 contains free product	26	7/9/04 1325 Decontaminating data la
13	ļ. 1	All of the UMP wells have water (UMP-5,6,	9/	at P-20.
1-1	<u> </u>	7 h8) at 15-6 bgs. The prezo returns	27	2/14/14 1334. Downloading data-from
		show water levels degree. There may be	0 6	P-20 data logger.
		a puriled aguster on top - not necessarily site-wide, but (ocalized?? - you		e w/ Canera I
	F 0801	UMP8 DTO = 12.67 TOC		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0804	DTW = 13,00/TOC		
id. 		TD=13.71/TOC	:	1 . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		WMP-5 DTW= 7,07/TOC TD= 13,50/TOC	/	
		VMP-6 DTW=7,27 TOC TD=12,91:		W Salv
	·	VMP-7 DTW = 8,98/TOC TD=13.14		
	0817	Discussing the Dlan for VER test		V
		They will start at max vacuum. It	7	
	_0830	lating 24th elapsed time measurements.		
1	· · · · · · · · · · · · · · · · · · ·	heter turning the pump off. Trom we		
i i	· · · · · · · · · · · · · · · · · · ·	Discussing the plan for VER test They will start at max vacuum. Taking 24th elapsed time measurements. hefore turning the pump off flow rote 20,5 GPM.	4 1	

Y. Haginara 2/19/04 Y. Hadinara 2/1 At VER-Z 2th readings were as: hydrologically connected (freely with follows. DTO = 17.38 from meas. point any problem 1 to the contaminated me A CRA person dropped of a peristatic There appears to be some sort of a barrier over UMP-5,6 and 7. 0910 VMP-5,6 and 7 line up (relatively) M Pump and some tubing. CRA will de-water the UNP wells before starting tosE aple. VMP-8 & VER-2 line us the VER test. Pump la Still on (for ENE-WSW anale bump (2° grundlos used to pumptes 0954 24- In pump text) CRA will stop the annualos only often the devicen Listill on. -Checking background PID readings task is completed so that the recharge can be monitored. -Purging VMP-7. 0.0 PDA -Stand VER test. Mass. Doot to stuc 1001 DTO st Adjusting the inner tube (di tube) to my accomodate for water to Purplied VMPt ~ 1.5 gala of water was surged from VMP7. — y 0929 change. Done purping VMPt. ~ 1,5 galsof sucking on a little bit of liquid Rand the drop tube up higher. water (murkage) was purged. 1004 1001 Times taking initial pressure at 0932 Checking vacuum pressure at PZ-1007 VMP 5 -134 Getting colibration record for an 09405 100 9 Vacuum observed at VMP-8&P-20. monitoring instruments. Posity Up at VMP-7 -PID I DIOTOUAL - PE FID (HICH FID) rented from IE mongrarin Fer CRA, drawing a lot of waterf inquirements (Total Digaric) [1013 the well. P-28 is showing the be response so for at ~ - 21 mm Hz Lanter troy (TEM too. (CO2, CO, O2) (RA will also monitor using Dragger as necessary (VC) drop rube at 17,5/ waterfable hur 50% methon 50% COZ GENTOO the pump tost. -Not getting discharge ble horly any a (alibrated at 000-0700000 700 6 Zb FID 100 ppm CHY
PID 100 ppm Isobutyline
Calibrating Dragger tubelve Only water is coming out ~ 3GPM 037 coming into the air factor unit. 1, 0945 Done purging vut well YMP-8 well ~0.5 EPM on the andtos Totals 6945 Contained mostly oil (all purised out) how he VMP 8 appears to be the long well that he 35 GPM, -40 mmHzo at P-20 & -35 mm Hzo at VMP-8 No influence

Ť	178			179
	•	Y. Hagivana 2/19/64	`	4. Haginara 2/19/x
		other wells CRA is considering	1226	Checking discharge Cair emission
		the following options		the flow rate is ~ the same -
		1 Lower Vacuum		1.5-2.0 Finding = 9" Hop at VMF
		2) Raise the bottom of drop tube	1234	After speaking to the projet
		so that the vacuum mostly pulls	,	that they will continue the VERTEST
		are and pump (grundos) pulling		that they will continue the VERTEST
		water out.		for 8 Mrs (~1800).
-Lu-	1048	Stopped the pump discharging from the	1240	Phoned On Patel to let him know
	- .	Carbon at unit. There has a small leak		that CRASS planning on continuity
		in line. Tape it up w/ duct tape	المراجعة المراجعة	the test until ~1800
	··		1307	No change in VP. Change of plan CRF
71		1/2 Ab		will continue VER testing until ~ 1601
	```	1/7/		instead of 1000. They will continue c
		The Minds	1 ato 4	to reduce test after The VER test. htm: CRA started collecting Sunna-Can
		JOHN MARINA	1000	sande at N1240.
	. /	4 4		The sande collection is an hour-
	1053	Trying to attach a larger volume flow		(regulated), sampling
131		meter.		Method TOLING
	1105	Tom Hobday off site to checkout	BIE	Asked Walt Pochron the plan for disagn
		from the notel. CRAis warting tha		Water etc. Beaver (a confractor) will ha
I — [Call back from senior engineer &		the carbon-Hitered water as no motion-
-14	- III	regarding how to proceed. In	1.7.	water
	1115	Increased the pump (Annatos) rate to	[355	Phoned Om Potel to ask if it would be k
		3 GPM. All the other settings are about the		necessary to be on site to watch CRA
-	1120	Same,		skin LNAPL out of the Robertank.
	1160	A lot less daylds of voter going though thean water tank.		Yes. Mentioned this to CRA. They are no
,	1200	No change in reponse (P).		Sure if it is going to happen to no more
	1210	Taking VP readings	Note 1	Vocuum was stabilized at ~1130 -
	12/6	Getting ready to collect Summa-	H20	VER testing is still going on and
		Can sample.		W. Poch ion is downloading data from Dad
		Response observed any Cut P-20 A UMP-8		LOGORAS
)		4		(Prom zy-in pump test)

Photolog
11->> Photo of digital max PAIN VER FRIOT Test is still going on.
No major changes for cars packing up some of the equipments etc. that are not used 2/19/04 1522 method for measuring UP.

2 2/19/04 1525 VER test set up.

3 2/19/04 1619 Decontaminating vacuu
unititanketu) with Alconox vater & for VER Testing.

All the data loggers except for the nearly (to VER-2) wells are decontament water -4 2/20/04 0800 Oil (LNAPL) Contalmentices and put away. milde of double casing-1550 Acked CRA what the plan was for 2/20/04 0942 Checking oil level in the to 3/2/04 1004 set up for water filteration. Wetting the carbon un shutting down the system. They sta They will first turn down the animatos pump 7 3/2/04 1037 Carton tilterunt rate to asgals min, and turn off the (bulged up atother top)
3/2/04 1038 water tank and hosin they will keep pumping (w/ grundows) until the DTW stabilized back to the out of the cartonaly unit original DTW before the start of 3/2/04 Trash pump attacked to th VER test no (Stabled DTW at constant out of the tank. rate purpose at 05 GPM). They will move to recharge test once the original DTW stabilization occurs by turning the pump off. (10140)-10 3/2104/25/ampling tank water to 11 3/2/04/3/Purping out thewater from conte mont (thru the filter)

12 312/04/5/7-Pressure work System

13 3/2/04 | 525 | Pressure-washing the inside Collecting last set of measurements before 1601 terminating the test. Vacuum readings - vacuum reading - 21 "Hg VMP-5 +5.6 in H2D Final of the tank -14 3/2/04 /6/5 Cottainment (tant) after Pumping of emptying.
4/2/04 The pressure was here unit or VMP-6 +16,9 VMP-7 41,5 4/2/04 085 + Decontaminating.
4/2/04 091 | Decontaminating of
pressure worker. VMP8 54 P19 0.0 3,2 PZO 4/2/04 1025 Skimming LNAPL from purfe /de Con water & water (being from the drum milde of soven to drang risk 15¢ 0,0 P42 0.0 043 0,0 JER-SAM

134

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LNAPL SEPARATION & container izotion & Haginara WESTON (Y. Haghmana) on Site. Having a difficult time decontaminating weather: Raining ~ 35°F at 07644 0700 High expected atoF. Personnel Walt Respon (CRA) Still trying to do con the trant (Carbon monitoring recovery. Pump le stillon 4. Huginara Musston 05,00 Tim Leb (CRA) on Site. Pochran, they will finish a annatos 657 up while the rail is coming down ha Start recovery test They will go to purge the pumper for Recovery test 164 if the ram subsides. There is a chance INHAL DTO= +7,44647,80/TOC they will postpone skimming of 16 28/TOC At 5 min LNAPI until not week when the 14.88 /TOC A+ 10 min It.KD / TOL weather is better. CPA left among A+20 : _ Dump soaking in Alconox water over 740 Dane W/ recovery test. to make it estien to decontamin CRA is packing up. Almost done 0815 ready to de con pump draining LNAPL out of the Carlon an tank / De con. 0840 000 so that the rest of the equipment can Done at the site, CRAISSTIL downloading some data data loggers from PZ-93 EVER-2) and packing up 0936 Containentana all used pipes & the Carton air unit. That of the spoon water (with shepp) Theplan is to une " STU body" to entr. CRA containerised some of the LNAPL that came out of the tank into a oil out of the tank Tating oil thickness measurement ofthe Baten tant ~ 1/100" drum across the street (24/2) 1941 double container 12ed Checking al well of another probe. Jus 1947 make two ~ Via 7447 Baker tank on site to pick up the back tank (aren, sinde-walled CAR'S New dance to get some oil absort 290 pade and Dut them in the tank over the neekend and sull then out nex week - not enough oil to try and

4. Hagiwan 3/2/04 Phoned Om Patel to inform Hadiwan leave for site. 0944 0900 Hadiwana on site. CRA is already CRAS plan to reave the OII 0935 Observent booms and pull then on site Cloudy, partially sunny. weather out sometime next week. -Temp in the fors -Personnel: Jeff Kolodziejski (CRA) WEST I to done for the day WESTON OPESITE. -办 1005 Back of VHI -Tim Les (CRA) Yashie Hruniwara (NESTON) IIP CRA is hosting up all the nece tubing (hose) to the carbon litterate Q440 unity tank Also drawing a hose from Norm water sourcetter Source toward the trunk -Tosting the track pump and pregging 1004 the carton filter tank before the luter houler comes on site 800 The top of the filter drun by ged The water hauler in Still not on SIT The water came out of the out 12 of the carbon unit was released to the containment [~ (gale. Sheen is observed on the surface of unter in the containment some rain water -rough remains thom vestordays rain The water from the containment should he pursed out and containerlied. Still uniting for the water water haule Beaver oil on site 620 1030 Stutt pumping (trush pump) 1036 1047 thingto The drum (Carbon) appears to be bu

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	Y. Hogung 3/2/04	(m)	& Hagina 3/2/04
1057	Jeff in cheding to see ifth how	1506	Stop the purp.
	many drums(empty) are on site.	150	Pumping with at of the 2ndary
115	Still pumpling		containment (Hostly rampater) - y
142	Still pumping.	1515	While pumping contaminant water out,
1225	Still pumping.		Jeff will pressure and the court.
	Still pumping 4		Alconox first (rigola) and therwater
1234	~ half way. CRAWIL stop the pump and	*	rinse.
	Sample the tank water (pre-filter)	1525	Pressure washing Inside the tank of
·	in a little bit.	1529	Problem of the pressure work/pump
	They will be sampling tor	<u>c </u>	the generator portion is not working
1250	Stopped the pump. Unsnowna	<u> </u>	well (trash pump). CRA will postpone
	the connections	<u> </u>	washing total inside the tank of
	They are going to All 2 - 40ml		PerCFA, they will close I de con the tank
	bottles of Sulturic acid preservative	7	at a later date since the purp is not
,	and 3-42 ml Mals of HCl - sh	1 (0%	ctop Rumping. Por Tim of CRA,
15(4)	(Total of 5 Viale of 40 mls)	1608	
1254	CRA Is done sampling. No ice in the		the tank decord & discarding the caren
1257	Cooler. Outslike temps 304 Jr	1114	Parking up has etc. (pumo)
14	Resume pumping. CRA is going to	1615	Parking up hose etc. (pump) 2900 gabl of wasterster was generaled
	got ice. Jose of CRA is going off	<u> </u>	& howledgesy by Beaver.
	Site to get some ice to	1616	Jeff of CRA Affrite.
1318	~ ^ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1625	Beaver of site after Manifest
1347	Still Pumping ~ 1/4 of the tank left.	1627	WESTON OFFSITE - An
1545	to pump, - the	1001	TOO OLI SILL
1410	Still pumping.		1 / Minor
Late en			1 divo
	PARlier inter compes more icod	:	
	Who Joth D CDA Com lock		
	when Jeff of CRA come back on site vi ice In	<u>a)</u>	1 / 4
1428	Pete Tameling presito		
1430	Pote Tameling of Site		
1428 1430 1500	Still Dumping.		

Tank cheon up 4 Hagemara 3/12/04 Y. Hagwara 3/2/04 decon INESTON (4. Hoginary) on site Wenther is warmen WESTON off Site. 085 0916 CRA is not on site yet. Back pot UNI End of day 0820 1035 CRA Tim Les on site. CRA truck is weather: Sunny, some claud ~20°F breezy CRA the other field member not 083¢ 0840 Asked Tim Les about the other team member. Jeff kolodziski does not have a cell phone Hold hot sure where Jeff is. a Jeff of CRA on site. E280 Trying to open the outfet value of the tank. It is trozen 0900 and cannot be opened. -Chocked the fluid Awide the tank 2090 There is ~3" of water/oil in the take that in thosen. It looks like ERA is going to discentinue the effort to decon the tank today. It also appears that the Site received some ram over themsel there is guite a bit of hater in the containment (tank). This is also to sen of the top. Tim Leo of CRA is phoning the 0190 Site marager, Walt Pockson 0912 CRA informed that they are not porturning any field activities today. They will reschool the decon of activity yeter whom the

194 4-7-04 SUN, 63° 0800 Isto 0 825 dums stored worth ride of 11sto 300 Finish collecting water from No value for carlon filter yack, Walter dine to get value nipple green coly thank and drums Kaining lifunge / Lecon / development Continued Groblems w/ young. 1530 Walter arives w/ new sump 1610 er of water finished ~ 200 gol old = 0 800 gallons RM leave site 4.7.04